Hi-Copy

DMX-8631 E/F/U

User's Guide

Revision 1.0

Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning:

To meet FCC requirements, a shielded power cord is required in order to prevent interference. It is essential that only the supplied power cord is to be used. Use only shielded cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not approved by the party responsible for compliance could void your authority to operate the equipment.

Welcome to the DMX-8631E/F/U User's Guide

Thank you for your purchasing of DMX-8631E/F/U CD duplicator controller. DMX-8631E/F/U features very easy operation with three LEDs on front panel to inform you the operation result.

DMX-8631E/F/U uses IDE interface, one CD-ROM and one CD-R/W drive are needed for proper operation.

1. Features :

- ❖ DMX-8631E/F/U supports 48x speed (or up) writer.
- ❖ With a combination of 52x CD-ROM and a 40x CD-RW writer, DMX-8631E/F/U can back up a full 650MB data CD in about 3 minutes 20 seconds. Copying an audio CD or Video CD takes longer, because their CD formats are different.
- ❖ DMX-8631E is a fully stand-alone CD duplicator device.
- ❖ DMX-8631F supports additional 1394 connection to PC.
- ❖ DMX-8631U supports additional USB connection to PC.
- ❖ IDE bus interface. Firmware upgradeable by a CD disc.
- ❖ Auto format detection.

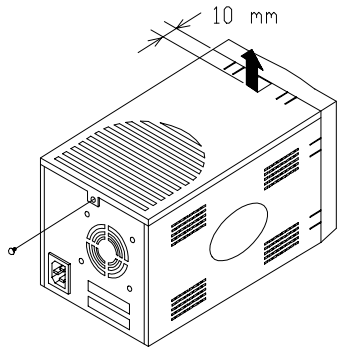
2. Before you start :

- ❖ Before you start, please make sure your source CD is clean and does not have any scratch on its surface. If a 40x CD-RW drive is attached, you must select blank 40x CD-R media for the copy. Use blank 16x, 24x or 32x CD-R media may turn on media detecting function of CD-RW drive, it will automatically slow down the writing speed according to the media detected.
- ❖ Configure CD-R (CD-RW) as master device, and CD-ROM as slave device. Set jumpers on them to correct positions.

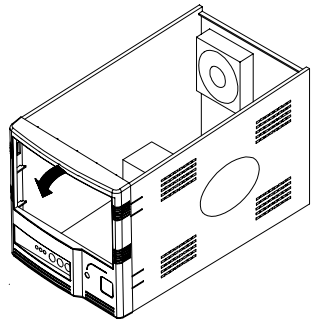
3. Easy Setup

Open the case :

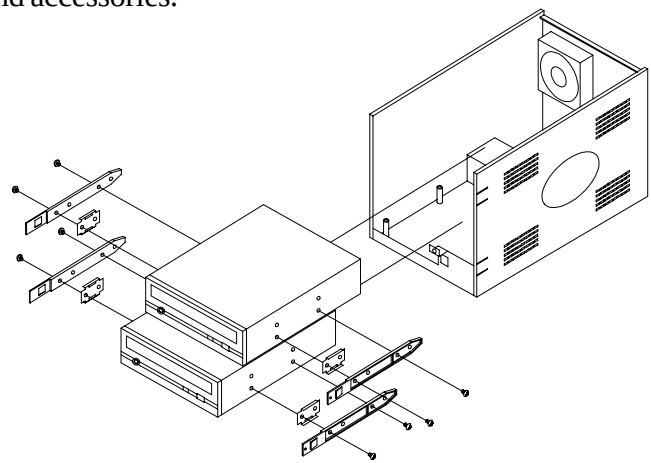
1. Release the screw on the back plane.
2. Remove top cover by sliding it toward backplane 1~2 cm, then pulling it up.



Push clips on both side panels, to remove the front door.



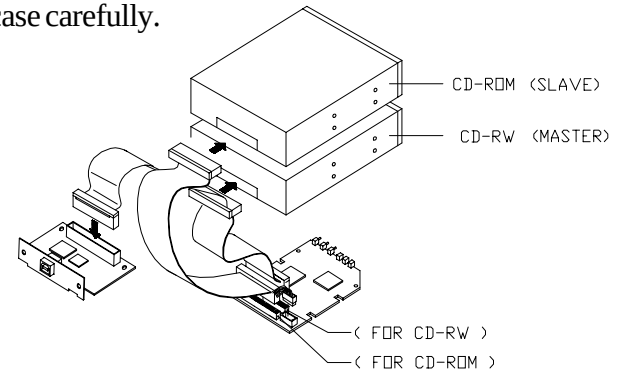
Secure CD-ROM and CD-R (or CD-R/W) drives with attached screws and accessories.



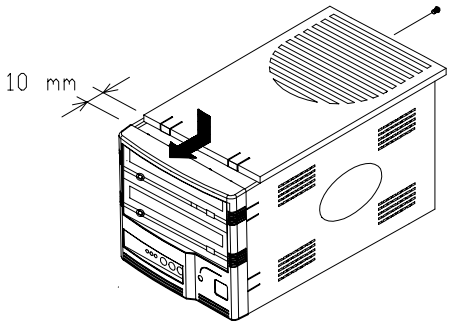
1. Install DMX-8631E/F/U controller (and 1394 or USB bridge card, if any), seat it (or them) properly inside the case.
2. Configure CD-RW as master device, and CD-ROM as slave device. Set jumpers on both devices to correct positions.
3. Connect one IDE cable to controller board (to the IDE slot near the PCB edge) and CD-ROM. Connect another IDE cable to controller board and CD-R/W drives. (In additional, to 1394 bridge card for DMX-8631F, or to USB bridge card for DMX-8631U).

Note : Pin-1 of IDE cable can be identified by red color.

4. Attach power connectors to all devices and finally, slide CD devices into the case carefully.



Replace and fasten the front panel. Put top cover onto top of the case with a gap of 1~2 cm to the front panel, then push and slide it in.



4. Front Panel :

There are three push buttons and three LEDs on the front panel. Their functions are :

Mode : This key has to work with Run and Speed keys to enter special function modes.

Mode + Run : Upgrade controller firmware. *

Mode + Speed : Erase CD-RW content. *

* : Press and halt Mode key, then press Run (or Speed) key. Release Run (or Speed) key, and finally, release Mode key.

Speed : The duplication will perform a speed test first. It will try the maximum speed, 4x speeds, and finally 1x speeds. Once a speed test passes, it will use that speed to perform the duplication.

Run : This is the default setting of using maximun speed to duplicate CD.

5. Update Firmware

There are many new models and faster speed CD-RW drives coming to the market everyday. In order to provide the best service, DMX-8631E/F/U allows user to upgrade firmware privately. User can download new firmware from http://www.domex.com.tw, then use a PC with CD-RW drive to write it on a CD-R, put this CD-R into CD-ROM drive of DMX-8631E/F/U, and press Mode + Run keys together to upgrade the firmware. During the process, when green LED is still lighting, please do not turn off power of DMX-8631E/F/U, otherwise, damage might happen. When green LED is off, please turn off the power, then turn on again for normal operation.

6. Operation for quick duplication

5-1. Power on, a short beep will sound, and green LED lights up.
5-2. Open doors of both CD-ROM and CD-RW drives.
5-3. Put source CD into CD-ROM drive.
5-4. Put blank CD into CD-RW drive.
5-5. Close doors of both drives.
5-6. In general, if source CD is in good condition, just press Run key to perform maximun speed duplication. Or, press Speed key to perform secure duplication. It will start speed test from the maximum speed, 4x speed, then to 1x speed. If a speed meets the requirement, it will use that speed to perform the duplication.

7. Operation Step by Step

Warming up:

Operation	Error Message
Green, orange and red LEDs flash about 25 seconds.	One long beep sounds, red LED lights.
One short beep sounds, green LED lights up.	

Copy Mode :

Operation	Error Message
Open doors of CD-ROM and CD-R/W.	One long beep sounds, red LED lights.
Put source CD into CD-ROM, then put blank CD into CD-RW, close the doors of CD-ROM and CD-RW. Press Run key to have default copy or press Speed key to have secure copy.	
During copy, LED on panels of CD-ROM and CD-RW flash.	Yellow LED lights.
If OK, one short beep sounds and ejects target CD.	Yellow LED off.

Update firmware Mode:

Operation	Error Message
Put update CD into CD-ROM.	One long beep sounds,
Press and halt Mode key, then press Run key. Release Run key, and finally, release Mode key. The update is proceeding. Finish update, all LEDs will be turned off. Please turn off the power then power on again.	

8. 1394 connection with PC & Mac (DMX-8631F only) :

DMX-8631F can be connected to PC (or Mac) through 1394 interface, and its CD-ROM and CD-RW drives will become external IDE devices of that PC (or Mac). Both drives are identified.

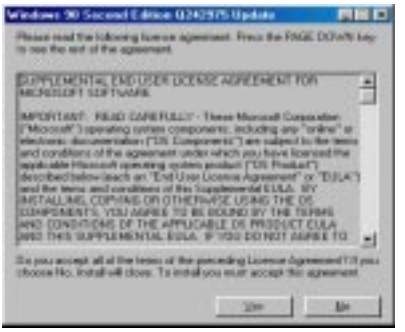
PC (or Mac) must have 1394 host controller inside, together with its driver installed.

Correction of Windows 98 SE :

* Note : Windows 98SE can identify only one external 1394 device, so you need to download file 242975cht8.exe (for traidtional Chinese), 242975chs8.exe (for simple Chinese) or 242975usa8.exe (for English) from http://www.microsoft.com/windows98/downloads/contents/wurecommended/s_wufeatured/1394/license.asp and the execution of this file can identify two drives. If you are using Windows Me / 2000 / XP, both devices will be identified.

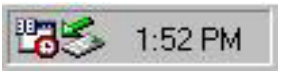
Run the downloaded program, : Click “Yes”.

Accept license agreement.
Click “Yes”.



Click “Yes” to restart computer.

Power on DMX-8631F, after buzzer sounds a short beep, press and halt RUN key for a period of 5 seconds, then three LEDs on the front panel light, release key. At this moment, PC (or Mac) can take control. Connect 1394 cable from PC (or Mac) to any 1394 port behind DMX-8631F. For PC, a Removal icon is shown on the screen, you can use PC burning software such as CDcreator, Nero5.5 to write the CD. For Mac, please refer to Page 13 or Page 16, 17 for operations.



Click Removal icon, it shows that PC already identifies two external IDE drives, one is CD-ROM, and another is CD-RW.

Click “Stop” to remove drive one by one.

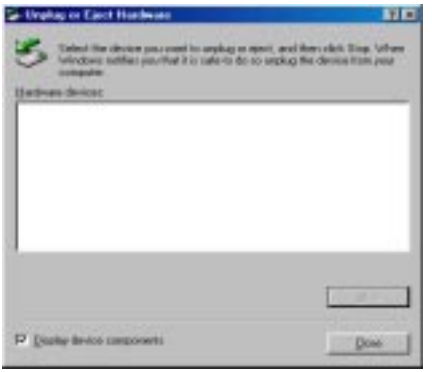
Remove IDE CD-ROM, such as IEEE 1394 CD-ROM. Select it by clicking on it, then click “OK”.

Stop a Hardware device
Confirm devices to be stopped. Choose OK to continue.
Windows will attempt to stop the following devices. After the devices are stopped they may be removed safely.
IEEE 1394 CD-ROM
OK
Cancel

Click “OK”. CD-ROM removed. Repeat again to remove CD-RW drive.

Both drives are removed.

Removal icon disappeared.



Disconnect 1394 cable from back panel of DMX-8631F.
Power off DMX-8631F.
Power on DMX-8631F again, it operates at stand alone mode.

The operation steps and displays on Win Me, Win 2000, Win XP are similiar.

9. USB2.0 connection with PC & Mac (DMX-8631U only) :

The DMX-8631U can be connected to PC or Mac through a USB interface. A USB Storage Driver must be installed on your PC (or Mac) before the connection is made. Detail about installation can be found in next section.

Because the limitation of USB specification, only master drive of DMX-8631U will be identified as the external drive of PC (or Mac). Factory default CD-RW is the master drive, and please do not change CD-ROM to master, otherwise, machine might not work.

The procedures to connect with PC (or Mac) :

1. Installed USB Storage Driver as described in next section.
2. Power on PC (or Mac), connect one end of USB cable to USB port (default USB1.1 or additional USB2.0 host controller) of PC (or Mac).
3. Power on DMX-8631U, after buzzer sounds a short beep, press and halt RUN key for a period of 5 seconds, all three LEDs on the front panel will light up, it then switched to USB linked to PC mode.
4. Connect another end of USB cable to back panel of DMX-8631U.
5. PC (or Mac) will identify the external IDE drive. A Removal Icon is also generated to allow you to remove the drive. This icon is displayed at the lower right corner on the PC screen. At this moment, you can use PC (or Mac) CD burning software such as CDcreator, Nero5.5, (for PC) or Toast (for Mac) to write the CD. Remember to open memory buffer of Nero to 63MB to get the best performance.

The procedures to disconnect with PC (or Mac) :

1. Click Remove Icon or drag drive to Trash to safely remove the drive.
2. Disconnect USB cable from back panel of DMX-8631U.
3. Power off DMX-8631U.

**** Note ** :**

1. If connect DMX-8631U to a default USB1.1 port of PC, please select 4x writing speed for the external CD-RW drive. If connect DMX-8631U to a USB2.0 host controller in PC, you must first install USB2.0 Windows driver for that controller, then select 16x writing speed for the external drive. Always purchase the newest CD writing software such as Nero 5.5...etc. for the writing.
2. If connect a power-on DMX-8631U to a PC, but three LEDs on the panel are not lighted (i.e. without setting USB operating mode), or power off duplicator without clicking Removal Icon first, or connect PC to a non-power DMX-8631U, all these conditions might halt a PC. User must follow the above mentioned instructions carefully to have the correct operation.

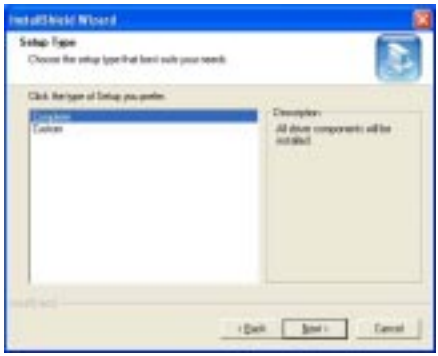
9.1 Win98, WinMe,Win2000,WinXP Driver Installation

Step 1 :

Open the driver CD, and double click on "TPPINST_5_04.exe". Click "Next".

Step 2 :

Select "Complete", and click "Next".



Step 3 :

Computer automatically setup and finish.

Step 4 :

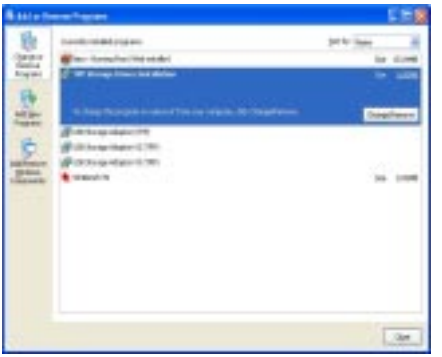
Check your Windows Control Panel/Add/Remove Programs, you will find four new programs as follows:

TPP storage Driver Installation

USB Storage Adapter (TPP)

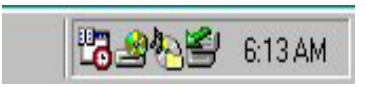
USB Storage Adapter V2 (TPP)

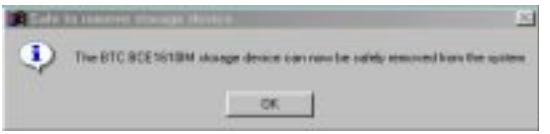
USB Storage Adapter V3 (TPP)



Removal Icon

Removal Icon shown when connect DMX-8631U through a USB cable to PC.





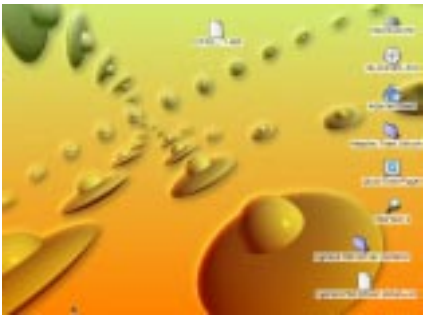
Click on Removal Icon, it informs you “The CD-RW storage device can now be safely removed from the system”.

Remove USB cable and DMX-8631U.

9.2 Mac OS 9.X Driver Installation

Step 1 :

Copy the driver file "CYMSC_MACOS9_3_2.hqx" to Mac hard disk. And double click this file.



Step 2:

Open the folder "Cypress Msc Driver Installer",
And double click on "Install Cypress Msc Driver".

Step 3 :

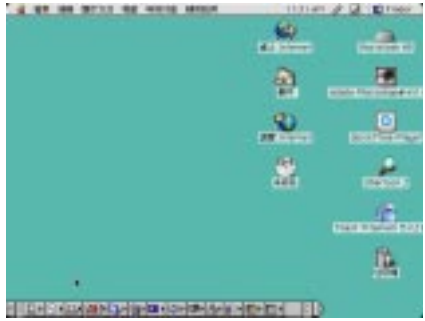
Installation was successful, Click "OK".

Install and Removal of External Drive on Mac OS 9.X

Connect DMX-8631U to Mac, there is no message shown on the screen until a CD is put into the drive of DMX-8631U.

Select “Prepare”.

CD shortcut will be displayed if a CD (or CD-R/CD-RW) is put into the drive.
You can use burning software such as Toast 4.0 to write the CD-R/CD-RW.



Drag CD shortcut to Trash to remove the drive.

9.3 Mac OS X Driver Installation

Step 1:

Copy the driver file “CYMSC_MACOSX_1_2.hqx” to Mac Hard disk.

And double click this file.

Double click on“ Cypress USB Storage.pkg”.

Step 2 :

Click the lock to make changes.

Step 3 :

Input the user name and password, Click ”OK”.

Step 4 :

Welcome to the Cypress USB Storage Driver Installer.
Click “Continue”.

Step 5 :

Click “Continue”.

Step 6 :

Select a destination volume to install the Cypress USB Storage.
Click “Continue”.

Step 7 :

Click install to perform a basic installation of this software package.
Click “Install”.

Step 8 :

The software was successfully installed. The computer will restart in 30 seconds.

Install and Removal of External Drive on Mac OSX

Connect DMX-8631U to Mac, there is no message shown on the screen until a CD is put into the drive of DMX-8631U.

Select “Prepare”.

A CD shortcut will be displayed if a CD (or CD-R/CD-RW) was put into the drive.
You can use burning software such as Toast 5.1P2 to write the CD-R/CD-RW.

Drag CD shortcut to Trash to remove the drive.

10. Technical Support :

Welcome to our web site http://www.domex.com.tw

E-mail address: tec@domex.com.tw